

ABSTRACT

A method of implementing a fast dynamic channel allocation escape procedure in a wireless communication system includes a pre-code allocation procedure, a signal-independent code allocation procedure, and a post-code allocation procedure. The pre-code allocation procedure receives and processes a measurement trigger signal, retrieves system measurements from a centralized database, and determines physical resources to be reassigned. The code allocation procedure checks the availability of a code set in the cell and generates timeslot sequences for the available timeslots. A code set is assigned to the available timeslots in a timeslot sequence, wherein a successful assignment is a solution. The interference signal code power (ISCP) is calculated for each solution and the solution having the lowest weighted ISCP is selected as an optimal solution. The post-code allocation procedure stores the reallocation information in the centralized database and creates a physical channel reconfiguration request message.